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1. PROJECT DEPTHS AND SOUNDINGS ARE REFERRED TO IGLD85 LOW WATER DATUM STEP AS SHOWN.
2. HORIZONTAL CONTROL IS REFERRED TO NORTH AMERICAN DATUM 1983 NEW YORK STATE PLANE COORDINATE SYSTEM—WEST ZONE.
3. PROJECT DEPTH IS AS NOTED BELOW LOW WATER DATUM.
4. SOUNDINGS WERE TAKEN BY THE BUFFALO DISTRICT ARMY CORPS OF ENGINEERS BY A. KENNERLY AND PARTY ON AUGUST 21, 2014 THROUGH AUGUST 22, 2014 USING:  
GPS POSITIONING, POS—MV VER. 5 AND REAL TIME KINEMATIC TIDES  
REFERENCE POINT USED; TTWIP  
SONAR HEAD: 240 KHZ, SEABAT 7101 MULTIBEAM  
1.5 DEGREE BEAMS 210 DEGREE ARC  
HEAVE, PITCH AND ROLL; APPLANIX POS—MV VER. 5  
VELOCITY PROFILER; SONTAK CASTAWAY CTD  
HYPACK SURVEY SOFTWARE  
SURVEY VESSEL "WITMER"
5. THE SOUNDING INFORMATION DEPICTED ON THE MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION AT THAT TIME.
6. THE BACKGROUND IMAGERY SHOWN WAS ACQUIRED FROM THE NEW YORK STATE GIS CLEARINGHOUSE.
7. THIS SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OUTLINED IN CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM 1110-2-1003.



CHANNEL CORNER COORDINATES		
Point	Northing	Easting
444	1089086.57	1051052.32
442	1091296.59	1052050.30
1425	1091686.61	1052999.31
1427	1090346.60	1052006.31



Ordinate black dots — ANCI D

Original photo size - A131 D

## COPY OF SIGNED ORIGINAL ##

Drawn by:	KPL
Checked by:	ACK
Reviewed by:	
Roman H. Figler III	PLS
Chief, Survey Section	
Approved by:	
Edward E. Connors	

Date: August 28, 2014

Edward F. Gurdzicki

U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
BUFFALO NEW YORK 14207-3199

BLACK ROCK CHANNEL &  
TONAWANDA HARBOR, NY  
PROJECT CONDITIONS SOUNDINGS 2014

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